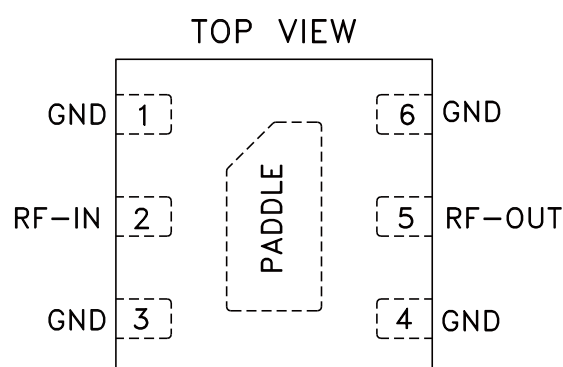
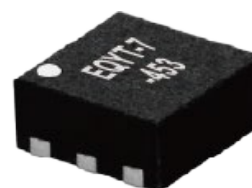
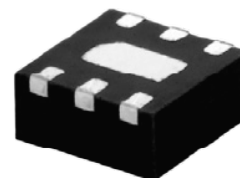


#### Features

- 7.4 dB Slope
- Negative Insertion Loss Slope vs. Frequency
- Wideband operation, DC to 45 GHz
- Excellent Power Handling Capability
- Small Size and simple to use (2 mm x 2 mm)
- Human Body Model (HBM): Class 2 (Pass 2000V)
- Moisture Sensitivity: MSL1



#### Applications

- Cellular Infrastructure
- 5G
- Wideband Communications
- Test Instrumentation
- Defense

#### Electrical specifications at 25°C

| Parameter                                 | Condition (GHz) | Min. | Typ. | Max. | Units |
|-------------------------------------------|-----------------|------|------|------|-------|
| Frequency Range                           |                 | DC   |      | 45   | GHz   |
| Insertion Loss                            | 0.01            | 8.4  | 8.7  | 8.9  | dB    |
|                                           | 10              | 6.9  | 7.3  | 7.6  |       |
|                                           | 20              | -    | 5.0  | -    |       |
|                                           | 30              | 2.5  | 3.0  | 3.5  |       |
|                                           | 40              | -    | 1.7  | -    |       |
|                                           | 45              | -    | 1.3  | -    |       |
| VSWR)                                     | 0.01-10         | -    | 1.20 | -    | :1    |
|                                           | 10-20           | -    | 1.16 | -    |       |
|                                           | 20-30           | -    | 1.23 | -    |       |
|                                           | 30-40           | -    | 1.29 | -    |       |
|                                           | 40-45           | -    | 1.43 | -    |       |
| *Input RF Power                           | 27              |      |      |      | dBm   |
| Operating & Storage Condition             |                 |      |      |      |       |
| Operation Temperature Range: -55℃ ~ +105℃ |                 |      |      |      |       |
| Storage Temperature Range: -65℃ ~ +150℃   |                 |      |      |      |       |

\*Derates linearly to +23 dBm at 105°C

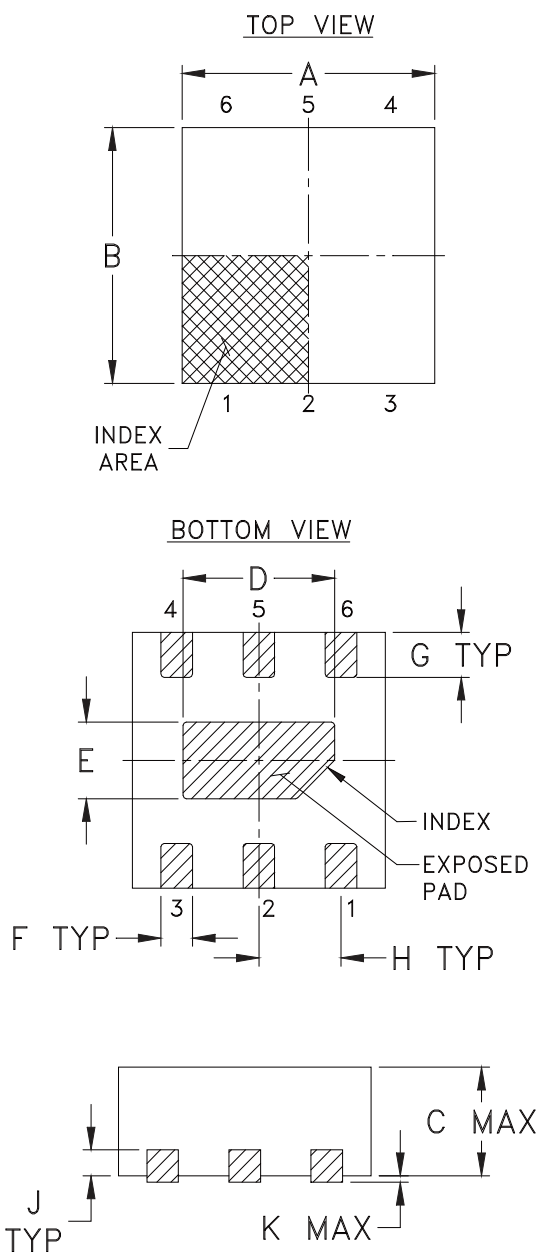
#### Yantel Corporation

Add: No.308-322,3F,Building 1,Juchuang Jingu Innovation Park,Wenyuan Road 35,Xili Street,Nanshan,Shenzhen,China

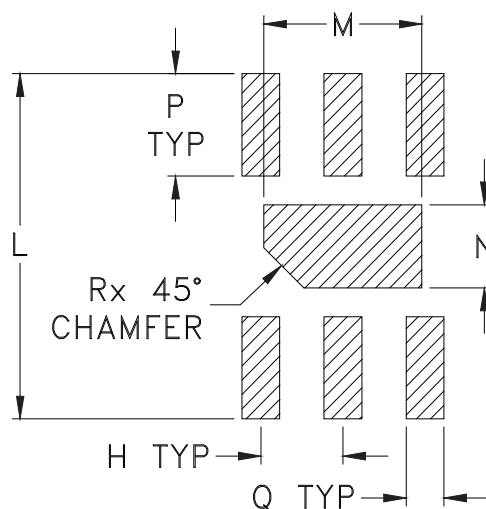
Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

For detailed performance specs & shopping online see Yantel web site : [www.yantel-corp.com](http://www.yantel-corp.com)

#### Outline Drawing



#### PCB Land Pattern



| A              | B              | C              | D              | E             | F             | G             | H             | J             | K             | L              | M              |
|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|
| .079<br>(2.00) | .079<br>(2.00) | .039<br>(1.00) | .047<br>(1.20) | .024<br>(.60) | .010<br>(.25) | .014<br>(.35) | .026<br>(.65) | .008<br>(.20) | .002<br>(.05) | .106<br>(2.70) | .049<br>(1.25) |
| N              | P              | Q              | R              | WT, GRAM      |               |               |               |               |               |                |                |
| .026<br>(.65)  | .031<br>(.80)  | .012<br>(.30)  | .012<br>(.30)  | .006          |               |               |               |               |               |                |                |

Units= inches (mm)

Tolerances=±.001 (±.25)

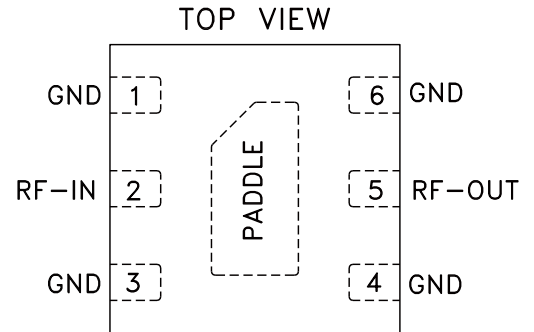
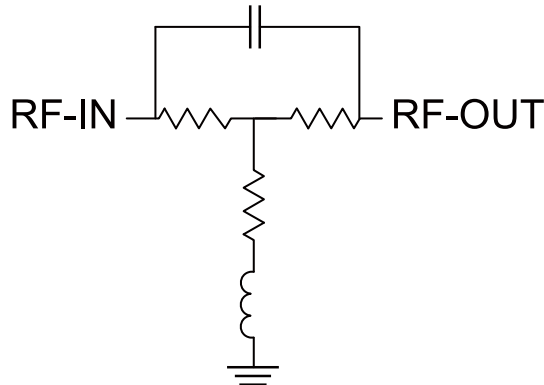
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### Simplified Schematic And Pad Description



| Function | Pad Number       | Description   |
|----------|------------------|---------------|
| RF-IN    | 2                | RF-Input pad  |
| RF-OUT   | 5                | RF-Output pad |
| GND      | 1,3,4,6 & Paddle | Ground        |

### Characterization Test Circuit

